

IN THE CLAIMS

Please cancel German language claims 1-49, all of the claims in the subject U.S. patent application, as filed. Also please cancel claims 12-65 as set forth in the letter from KBA dated October 11, 2004. Please add new claims 66-138, as follows.

Claims 1-65 (Cancelled)

66. (New) A rotating body of a printing press comprising:

a rotating body barrel, said barrel including a base body and an outer body, said outer body being positioned radially outside of said base body;

at least one temperature control medium flow channel in said barrel and including at least one inflow and at least one outflow for a temperature control medium which is flowable through said at least one channel to exchange an amount of heat with said barrel over a distance between said inflow and said outflow;

an inner surface of said outer body, said channel being open toward said inner surface; and

an insert in said channel and extending over said distance between said inflow and said outflow and adapted to insulate the temperature control medium against said base body.

67. (New) The rotating body of claim 66 wherein said channel is located in one of a surface of said base body, said inner surface of said outer body around a space between said surface of said base body and said inner surface of said outer body.

68. (New) The rotating body of claim 67 wherein said channel is formed by milling.

69. (New) A rotating body of a printing press comprising:

a rotating body barrel, said barrel including a base body and an outer body, said outer body being positioned radially outside of said base body;

at least one temperature control medium flow channel in said barrel and including at least one inflow and at least one outflow for a temperature control medium which is flowable through said at least one channel to exchange an amount of heat with said barrel over a distance between said inflow and said outflow;

a base body surface and an outer body inner surface spaced from said base body surface; and

a thermal insulating material arranged between said base body surface and said outer body inner surface, said channel being formed in said thermal insulating material and being thermally insulated from said base body by said thermal insulating material.

70. (New) The rotating body of claim 69 wherein said channel is open toward said outer body inner surface.

71. (New) The rotating body of claim 69 wherein said channel has a bottom toward said base body surface.

72. (New) The rotating body of claim 69 further including at least one temperature

control medium guide surface in said thermal insulating material.

73. (New) The rotating body of claim 69 wherein said channel is formed in said thermal insulating material by casting.

74. (New) The rotating body of claim 69 wherein said thermal insulating material at least partially includes said base body.

75. (New) The rotating body of claim 69 wherein said thermal insulating material is in the shape of a cylinder and includes said base body.

76. (New) The rotating body of claim 69 wherein each of said thermal insulating material, said base body and said outer body have matched coefficients of thermal expansion.

77. (New) The rotating body of claim 69 further including hollow glass bodies in said thermal insulating material.

78. (New) The rotating body of claim 69 wherein said thermal insulating material is cast between said base body surface and said outer body inner surface.

79. (New) The rotating body of claim 69 wherein said thermal insulating material is a sleeve enclosed in a space between said base body surface and said inner surface of

said outer body.

80. (New) The rotating body of claim 79 wherein said sleeve is an injection-molded plastic.

81. (New) The rotating body of claim 79 wherein said channel is formed in an exterior of said sleeve.

82. (New) The rotating body of claim 79 wherein said channel is formed by injection molding.

83. (New) The rotating body of claim 66 wherein said barrel has an outer shell surface and wherein said channel is located not more than 20 mm underneath said shell surface.

84. (New) The rotating body of claim 69 wherein said barrel has an outer shell surface and wherein said channel is located not more than 20 mm underneath said shell surface.

85. (New) The rotating body of claim 66 wherein said distance between said inflow and said outflow is at least one print producing area length on said barrel.

86. (New) The rotating body of claim 66 wherein said channel is parallel to an axis of

rotation of said base body.

87. (New) The rotating body of claim 66 wherein said channel extends around said base body as a helix.

88. (New) The rotating body of claim 66 wherein a flow speed of said temperature control medium along said distance is controlled to maintain a constant heat exchange amount between said temperature control medium and said outer body.

89. (New) The rotating body of claim 66 wherein said channel opening facing said inner surface of said outer body is a contact surface of said temperature control medium in said channel with said inner surface of said outer body.

90. (New) The rotating body of claim 89 wherein said contact surface is constant in one of a channel geometry and a spacing from a shell surface of said outer body.

91. (New) The rotating body of claim 89 wherein said contact surface provides a changing dwell time of said temperature control medium in said channel wherein an amount of heat exchanged between said temperature control medium and said outer body is constant along said distance.

92. (New) The rotating body of claim 66 wherein said channel has a first cross-sectional surface at said inflow and a second cross-sectional surface, different from

said first cross-sectional, at said overflow.

93. (New) The rotating body of claim 66 wherein said channel has a first depth at said inflow and a second depth, different from said first depth at said outflow.

94. (New) The rotating body of claim 66 wherein said insert is placed in said channel in a positively connected manner.

95. (New) The rotating body of claim 66 wherein said insert changes a cross-sectional surface of said channel.

96. (New) The rotating body of claim 66 wherein said insert is wedge-shaped.

97. (New) The rotating body of claim 66 wherein said insert is glued in said channel.

98. (New) The rotating body of claim 66 wherein said insert is a rod.

99. (New) The rotating body of claim 66 wherein said insert is press fit into said channel.

100. (New) The rotating body of claim 66 wherein said insert is placed on said channel by molding.

101. (New) The rotating body of claim 66 wherein said insert is a thermal insulating material.

102. (New) A rotating body of a printing press comprising:

a rotating body barrel, said barrel including a base body and an outer body, said outer body being positioned radially outside of said base body; and

a thermal insulating material interposed between said base body and said outer body, said thermal insulating material being arranged as a cylindrical sleeve enclosing said base body.

103. (New) The rotating body of claim 102 wherein said thermal insulating material is castable.

104. (New) The rotating body of claim 102 wherein said rotating body is a roller in an inking unit of the printing press.

105. (New) The rotating body of claim 69 wherein said thermal insulating material is a synthetic resin.

106. (New) The rotating body of claim 102 wherein said thermal insulating material is a synthetic resin.

107. (New) The rotating body of claim 102 further including hollow glass bodies in

said thermal insulating material.

108. (New) The rotating body of claim 102 further including at least one temperature control medium flow channel in said barrel and being at least one inflow and at least one outflow for said temperature control medium.

109. (New) The rotating body of claim 108 wherein said temperature control medium exchanges an amount of heat with said barrel along a distance between said at least one inflow and said at least one outflow.

110. (New) The rotating body of claim 108 wherein said channel is thermally insulated with respect to said base body along said distance by said thermal insulating material.

111. (New) The rotating body of claim 66 wherein said outer body includes an outer shell face adapted to support at least one dressing.

112. (New) The rotating body of claim 69 wherein said outer body includes an outer shell face adapted to support at least one dressing.

113. (New) The rotating body of claim 102 wherein said outer body includes an outer shell face adapted to support at least one dressing.

114. (New) The rotating body of claim 66 wherein said outer body is a curved element

which at least partially encloses said base body.

115. (New) The rotating body of claim 69 wherein said outer body is a curved element which at least partially encloses said base body.

116. (New) The rotating body of claim 102 wherein said outer body is a curved element which at least partially encloses said base body.

117. (New) The rotating body of claim 114 wherein said curved element has a central angle less than 360° .

118. (New) The rotating body of claim 115 wherein said curved element has a central angle less than 360° .

119. (New) The rotating body of claim 116 wherein said curved element has a central angle less than 360° .

120. (New) The rotating body of claim 114 further including a plurality of said curved elements, each including one of said channel and arranged on said base body in a circumferential direction of said base body, each said curved element having a central angle, a sum of said central angles being no greater than 360° .

121. (New) The rotating body of claim 115 further including a plurality of said curved

elements, each including one of said channel and arranged on said base body in a circumferential direction of said base body, each said curved element having a central angle, a sum of said central angles being no greater than 360°.

122. (New) The rotating body of claim 116 further including a plurality of said curved elements, each including one of said channel and arranged on said base body in a circumferential direction of said base body, each said curved element having a central angle, a sum of said central angles being no greater than 360°.

123. (New) The rotating body of claim 66 wherein said rotating body is one of a forme cylinder and a transfer cylinder of the printing press.

124. (New) The rotating body of claim 66 wherein said rotating body is a roller in an inking unit of the printing press.

125. (New) The rotating body of claim 102 further including several sleeves positioned axially along a length of said rotating body.

126. (New) The rotating body of claim 125 wherein said sleeves are of differing widths.

127. (New) The rotating body of claim 125 wherein said several sleeves are arranged on said base body extending over an axial length of said rotating body.

128. (New) The rotating body of claim 125 further including axially extending grooves in circumferences of said sleeves.

129. (New) The rotating body of claim 128 wherein said grooves cooperate to form a continuous flow channel extending over said length of said rotating body.

130. (New) The rotating body of claim 102 wherein said outer body is a cylindrical pipe.

131. (New) The rotating body of claim 102 wherein said outer body is thin-walled.

132. (New) The rotating body of claim 125 wherein said outer body is positioned on top of said sleeves.

133. (New) The rotating body of claim 125 wherein said outer body is positively connected to said sleeves.

134. (New) The rotating body of claim 128 wherein said outer body covers said grooves.

135. (New) The rotating body of claim 102 wherein said outer body is a corrosion-proof and wear-proof metallic material.

136. (New) The rotating body of claim 125 wherein said sleeves are a plastic material.

137. (New) The rotating body of claim 125 wherein said sleeves are fastened on said base body with a material-to-material connection.

138. (New) The rotating body of claim 128 further including strips formed between said grooves.